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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,409	04/03/2001	Stephen Lupo	55381 (18102)	1638

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EXAMINER
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AVELLINO, JOSEPH E

ART UNIT	PAPER NUMBER
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2143

DATE MAILED: 09/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/825,409

Applicant(s)

LUPO ET AL.

Examiner

Joseph E. Avellino

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 03 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-42 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-42 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. Claims 1-42 are presented for examination with claims 1, 14, 15, 22, 24, 33, and 39 independent.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4-10, 14-16, 18, 19, 24-30, 33-36, 39, and 41 are rejected under 35 U.S.C. 102(b) as being anticipated by Dureau (WO 99/66726) (cited by Applicant in IDS).

3. Referring to claim 1, Dureau discloses a system for processing interactive media output from one or more subscribers (i.e. receiving stations 13) comprising:

a collection and aggregation network (e.g. abstract) including:

a collector configured to collect the interactive output from each of the one or more subscribers and to store the collected interactive media output in a non-relational manner (e.g. abstract); and

an aggregator operably connected to the collector, the aggregator configured and arranged to collect and aggregate the interactive output from the collector (p. 7, lines 6-19).

4. Referring to claim 2, Dureau discloses the collection and aggregation network is configured to process a high volume of the interactive output (i.e. when the set-top box is full) (p. 7, lines 1-5).

5. Referring to claim 4, Dureau discloses the interactive output is processed by the collector and aggregator network so that it is transmitted through the system in real time (i.e. the set-top box collects interactive data as it occurs) (p. 6, lines 25-26).

6. Referring to claim 5, Dureau discloses at least one communications message server, operably connected to a plurality of the one or more subscribers and the collector, that receives the interactive output from said subscribers and formats the output for transmission to the collector (the set-top box receives the interactive output from the user where it is transmitted to the broadcast station) (e.g. abstract; p. 7, lines 1-5).

7. Referring to claim 6, Dureau discloses the collector includes a plurality of products, each of the products processing the interactive output corresponding to an

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event (i.e. creating viewer preference filters based on the incoming data) (p. 7, lines 6-24).

8. Referring to claim 7, Dureau discloses the products log at least a portion of the interactive output from the event (p. 7, lines 19-36).

9. Referring to claim 8, Dureau discloses each of the products generates and sends back response replies to the one or more subscribers (p. 7, lines 6-24).

10. Referring to claim 9, Dureau discloses including a plurality of subscriber networks, each of the subscriber networks being operably connected to at least one communications message server, wherein the communication message server is operably linked to at least one collector (i.e. each set-top box includes a message server to transmit messages to the broadcast station) (Figure 1).

11. Referring to claim 10, Dureau discloses the server normalizes the interactive output received from its corresponding subscriber network for transmission to the at least one collector (the term "normalizes" is taken to mean "formatted in order for transmission") (p. 7, lines 1-5).

12. Claims 14-16, 18, 19, 24-30, 33-36, 39, and 41 are rejected for similar reasons as stated above.

***Claim Rejections - 35 USC § 103***

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11-13, 20-23, 31, 32, 37, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Hendricks et al. (USPN 6,160,989) (cited by Applicant in IDS) (hereinafter Hendricks).

14. Referring to claim 11, Dureau discloses the invention substantively as described in claim 1. Dureau does not specifically disclose the aggregator transmits the interactive output received from the collector to an application server operably connected to the aggregator. In analogous art, Hendricks discloses another collection and aggregation system wherein the aggregator (i.e. control receiver) transmits the interactive output received from the collector to an application server (i.e. network controller CPU 224) operably connected to the aggregator (col. 27, lines 1-5). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Hendricks with Dureau in order to effectively targeting advertisements to particular consumers and viewers without relying upon telephone lines as supported by Hendricks (col. 2, lines 55-63).

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15. Referring to claim 12, Dureau discloses the invention substantively as described in claim 1. Dureau does not disclose the application server connected to a producer event browser via a web server. In analogous art, Hendricks discloses another collection and aggregation system wherein the application server connected to a producer event browser (i.e. a workstation) via a web server (i.e. network controller CPU) (col. 29, lines 4-10). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Hendricks with Dureau in order to effectively targeting advertisements to particular consumers and viewers without relying upon telephone lines as supported by Hendricks (col. 2, lines 55-63).

16. Referring to claim 13, Dureau discloses the invention substantively as described in claim 1. Dureau does not disclose the application server is operably connected to a developer computer via a web server. In analogous art, Hendricks discloses another collection and aggregation system wherein the application server is operably connected to a developer computer via a web server (col. 34, lines 15-54). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Hendricks with Dureau in order to effectively targeting advertisements to particular consumers and viewers without relying upon telephone lines as supported by Hendricks (col. 2, lines 55-63).

17. Claims 20-23, 31, 32, 37, and 38 are rejected for similar reasons as stated above.

Claims 3, 17, 40 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dureau in view of Gai et al. (USPN 6,714,985) (hereinafter Gai).

18. Referring to claim 3, Dureau discloses a collection and aggregation system substantively as described in claim 1. Dureau does not specifically disclose that the network can handle at least 100,000 responses per second. In analogous art, Gai discloses another network wherein the apparatus may handle millions of messages per second (col. 13, lines 20-29). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Gai with Dureau in order to process messages at extremely high speeds, thereby increasing throughput and thereby allowing more users accessing the network as supported by Gai (col. 3, lines 52-56; col. 4, 26-42).

19. Claims 17, 40, and 42 are rejected for similar reasons as stated above.

### ***Conclusion***

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

21. Theston et al. (USPN 6,772,435) discloses a digital video broadcast system.

22. Malagrino et al. (USPN 6,714,985) discloses efficiently reassembling fragments received at an intermediate station in a computer network.



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23. Ukita et al. (USPN 6,622,174) discloses a system for sending, converting, and adding advertisements to electronic messages sent across a network.

24. Mogul, Jeffrey C. ("The Case for Persistent-Connection HTTP; ACM SIGCOMM, 1995 pp. 299-313) discloses modifications to HTTP which would transport multiple requests over each TCP connection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (703) 305-7855. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEA  
September 7, 2004

  
ZARNI MAUNG  
PRIMARY EXAMINER